

Title (en)

Method for producing alkyl and/or cycloalkyl-substituted cyclic nitrile

Title (de)

Methode zur Herstellung von alkyl- und/oder cycloalkyl-substituierten zyklischen Nitrilen

Title (fr)

Procédé pour la production de nitriles cycliques alkyl et/ou cycloalkyl substitués

Publication

**EP 1518853 A1 20050330 (EN)**

Application

**EP 04104398 A 20040913**

Priority

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Abstract (en)

In the production method of the invention, a cyclic aldehyde having an alkyl group and/or a cycloalkyl group directly bonded to a skeletal ring and a formyl group directly bonded to the skeletal ring is brought into contact with ammonia and oxygen in vapor phase in the presence of a catalyst. As a result thereof, the formyl group is selectively ammoxidized into a cyano group to convert the cyclic aldehyde into a corresponding cyclic nitrile. The method enables a long-term, high-yield production of the cyclic nitrile using a reduced amount of ammonia.

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IPC 8 full level

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**C07C 253/28** (2013.01 - EP US)

C-Set (source: EP US)

**C07C 253/28** + **C07C 255/50**

Citation (search report)

- [A] DE 19647795 A1 19980520 - SUEDEDEUTSCHE KALKSTICKSTOFF [DE]
- [A] EP 1136120 A1 20010926 - INST ANGEWANDTE CHEMIE BERLIN [DE]

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CH DE FR GB IT LI

DOCDB simple family (publication)

**EP 1518853 A1 20050330**; **EP 1518853 B1 20090304**; CN 100354254 C 20071212; CN 1636970 A 20050713; DE 602004019737 D1 20090416; US 2005124823 A1 20050609; US 7102025 B2 20060905

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